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BATTERY CHARGERS USER MANUAL

AC230-240V 50HZ

>ABS<

Please read this operating manual carefully before starting the device. Keep it in a safe place for future reference. If the device is handed over to another person, this operating manual must be handed over along with device.

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IMPORTANT SAFETY INFORMATION:

Read the following instructions carefully before use. Keep these instructions for later reference. Always operate the battery charger according to these instructions.

IMPORTANT!

NOTES ON USING THE MANUAL

The following symbols are used in this operating manual:

Caution!
Safety instruction: Failure to observe this instruction can cause personal injury or damage the device.

Caution!
Safety instruction relating to danger emanating from electrical currents or voltage: Failure to observe this instruction can cause injury or damage the device and impair its function.

Note
Supplementary information for operating the device.

Battery with no charge.

Half-charged battery.

Fully charged battery.

Please observe the following safety instructions.

2 SAFETY INSTRUCTIONS

Caution!

The manufacturer will not be held liable for claims for damage resulting from the following:
- Damage to the device resulting from mechanical influences and overvoltage.
- Use for purposes other than those described in the operating manual.

Warning

The following fundamental safety measures must be observed when using electrical devices to protect against:

- Electric shock
- Fire hazards
- Injury

2.1 GENERAL SAFETY

- Check that the voltage specification on the type plate corresponds to that of the energy supply.
- Ensure that other objects **cannot** cause a short circuit at the contacts of the charger.
- Ensure that the red and black terminals **never** come into contact.
- Lay all cables so that they cannot be tripped over or damaged.
- Never pull the plug out of the socket by the cable.
- Disconnect the connection cable:
  - Before cleaning and maintenance
  - After use
  - Before changing a fuse

- **Keep children away.**
  Do not allow children to use this electrical device.

2.2 OPERATING THE DEVICE SAFELY

- **Caution - Danger of electrocution!**
  Do not touch any exposed cables.
- When using this equipment, ensure that there is somebody close at hand who can help you in emergencies.
- To be able to disconnect the Battery Charger quickly from the mains, the socket must be close to the device and be easily accessible.

- Before starting the device, ensure that the power supply cable and the plug are dry.
- Please observe that even if the fuse has blown, parts of the device may still be conducting a voltage.

- Set up the device in a dry location where it is protected against splashing water.
- Protect the device against corrosive fumes, salty or moist air.
- Protect the device and the cable against rain and moisture.
- Ensure good ventilation.
- Keep a distance of at least 5cm clear on all sides of the Battery Charger. During operation, keep all objects that can be damaged by high temperatures away from the device.
- Do **not** use the device in areas where flammable gases or liquids are present such as in the keel areas of petrol-driven boats, any closed-in areas or close to propane tanks.
- Always switch the device off after operation.

2.3 SAFETY PRECAUTIONS WHEN HANDLING BATTERIES

- **Caution! Danger of injury!**
  Batteries contain aggressive and caustic acids. Avoid battery fluid coming into contact with your body. If your skin does come into contact with battery fluid, wash the part of your body in question thoroughly with water.
- **Caution! Danger of explosions!**
  Prevent any metal parts from falling on the battery. This can cause sparks or short-circuit the battery and other electrical parts.
- **Caution! Danger of explosions!**
  Make sure the polarity is correct when connecting the battery (red terminal: positive terminal of the battery; black terminal: negative terminal of the battery).
- Follow the instructions of the battery manufacturer and the manufacturer of the vehicle or system in which the battery is used.
- Never attempt to charge frozen batteries.
- Do not smoke and ensure that no sparks can arise in the vicinity of the engine or battery.
- Wear goggles and protective clothing when you work on batteries. Do not touch your eyes when you are working on the battery.
- If you need to remove the battery, first disconnect the earth connection. Disconnect all connections and all loads from the battery before removing it.

Caution!

Batteries with a cell short may not be charged. There is a danger of explosions due to the explosive gases.

Nickel-cadmium batteries and non-rechargeable batteries **must** not be charged with the charger. **The sleeves of these batteries can burst in an explosive manner.**

BATTERY CHARGER FEATURES

1. LED charging status Indication
2. Thermal cut-off protection – switching back on after charger has cooled down sufficiently
3. Automatic charging – allows continuous charging without fear of damaging battery as charger monitors charging status & switches to trickle charging when battery is fully charged
4. Short circuit protection
5. Reverse polarity protection
6. Unique wall mounting facility complete with fixings

INSTRUCTIONS FOR USE OF 4 & 6 AMP BATTERY CHARGERS

1. Consult your vehicles handbook to determine whether and how the battery must be disconnected from the vehicle's electrical system before removing. **Note some accessories such as radios may need resetting if the power is disconnected such as re-entering a security code, make sure you have the necessary information & instructions for this before disconnecting your battery.**
2. For non-maintenance-free batteries, first remove the cell plugs & check electrolyte level. (the electrolyte must cover the plates in the individual cells, if it does not, top up with distilled water).
3. **Make sure the charger is not plugged into a power socket.**
4. First, connect the red clamp to the positive terminal (+) of the battery, then the black clamp to the negative terminal (-). To indicate correct connection & showing that the battery is not fully discharged, all 3 battery status LED's except the green LED marked 'Power' will illuminate (other than, due to the dual voltage circuitry of the 8A & 12A versions when only the green battery status LED will illuminate).
5. When charging a battery that has not been removed from the vehicle, follow point 1 above.
6. First connect the red clamp to the positive terminal (+) of the battery, and then connect the black clamp to the chassis at a location away from the battery & the fuel line.
7. Connect the mains cable to a 240v socket & switch the on/off to the '1' position, the green LED marked 'Power' will illuminate.
9. Your battery will now start to be recharged and its progress can be monitored as follows:
   I. Initially all 4 LED's will illuminate.
   II As the charging progresses the red LED indicated by will go out first, the time for this to happen will be dependant on the condition of your battery.
   III. Once this second phase has finished the next yellow LED indicated by goes out leaving the green LED indicated by illuminated indicating that the battery is now fully charged. The battery can remain connected to the charger as the circuitry senses that the battery is charged & switches to a trickle charge, thereby preventing over charging but maintaining the battery in a fully charged condition.

9. To remove the battery charger from the battery, first switch off the On/Off switch & unplug the power cable. Only then can you disconnect the battery charging clamps.
10. For non-maintenance-free batteries re-check the electrolyte level & top up with distilled water if required & replace the battery cell plugs.

Note: After charging a battery that has not been removed from the vehicle, first remove the connection on the chassis & then the other connected to the battery, finally unplugging the battery charger.

WALL MOUNTING THE BATTERY CHARGER

Your battery charger has a very useful feature in that it can be wall mounted for convenient use & storage.

On the rear of the body are 2 keyhole slots for this function & included with the unit are two 4mm x 30mm screws & rawl plugs.

Using the template provided mark the wall where you wish to mount the battery charger. Drill 2 holes using a 6mm masonry drill, insert the 2 rawl plugs & screw in the 2 screws leaving a distance of approximately 4mm between the wall & head of the screw. Offer up the battery charger & carefully position the holes in the rear of the battery charger body over the head of the screws & slide down. It should be a snug fit but not too tight so that you have to force the battery charger down, if required adjust the position of the screws by either unscrewing to loosen the fit or screw further into the wall to tighten the fit.

ADDITIONAL FEATURES & INSTRUCTIONS FOR 8 & 12 AMP, 6/12V SWITCHABLE BATTERY CHARGERS

6 VOLT & 12 VOLT FEATURE

Your battery charger is suitable for charging 6 or 12 volt batteries.

For charging 6 volt batteries make sure the switch is in the 6 volt position.

CAUTION CHARGING A 6 VOLT BATTERY WITH THE SWITCH IN THE 12 VOLT POSITION WILL DAMAGE THE BATTERY AND CHARGER SO MAKE SURE YOU HAVE SET THE SWITCH CORRECTLY BEFORE COMMENCING CHARGING.

Follow all other instructions above for charging your battery.

SPECIFICATIONS

Technical Specification - 4 Amp Battery Charger

Voltage input:	AC 230-240V/50Hz
Voltage output:	DC 12V
Charging current:	4A max/2.4A effective
Engine capacity:	Up to 1200cc
Battery capacity:	12-48Ah
Fuse:	15A Blade Type

Technical Specification – 6 Amp Battery Charger

Voltage input:	AC 230-240V/50Hz
Voltage output:	DC 12V
Charging current:	6A max/3.6A effective
Engine capacity:	Up to 1800cc
Battery capacity:	20-80Ah
Fuse:	15A Blade Type

Technical Specification – 8 Amp 6/12V Battery Charger

Voltage input:	AC 230-240V/50Hz
Voltage output:	DC 6/12V selectable
Charging current:	8A max/4.8A effective
Engine capacity:	Over 1800cc
Battery capacity:	9-112Ah – 6V 10-112Ah – 12V
Fuse:	30A Blade Type

Technical Specification – 12 Amp 6/12V Battery Charger

Voltage input:	AC 230-240V/50Hz
Voltage output:	DC 6/12V selectable
Charging current:	12A max/7.2A effective
Engine capacity:	Over 1800cc
Battery capacity:	9-160Ah – 6V 15-160Ah – 12V
Fuse:	30A Blade Type

END OF LIFE DISPOSAL

This product must not be disposed of through normal house hold waste collection.

It must be taken to your local approved collection point for the re-cycling of electrical & electronic equipment.

By disposing of this product correctly you are helping to protect the environment.

If you are unsure where your local recycling centre is go to:-

http://www.wastepack.co.uk/search.aspx

Click on the Recycle icon then go to Recycle Bank Locator, pick the waste type & enter your postcode.

Alternatively contact your local council offices.

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